PCC Plant Inspection

By

Basil Miranda

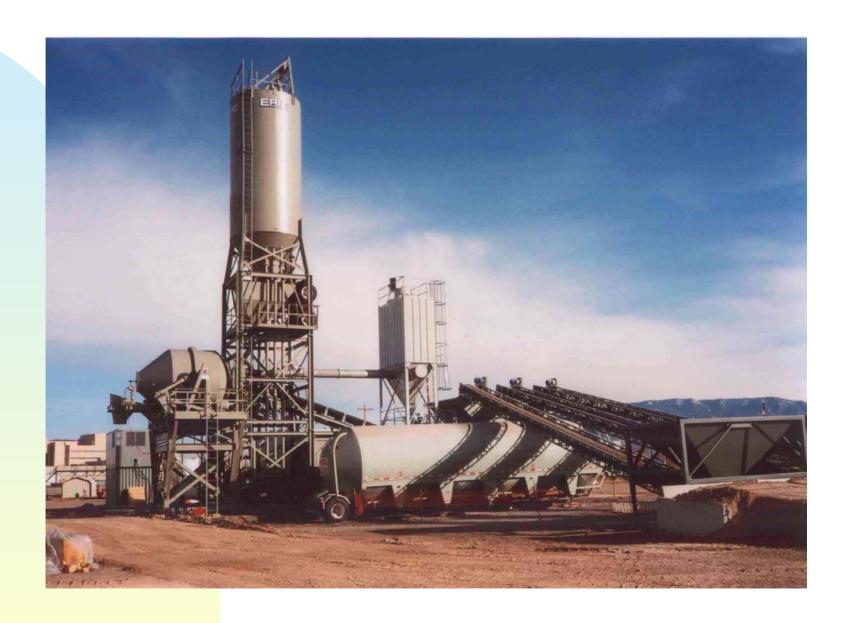
Office of Construction Engineering

Types of Plants

Wet Batch

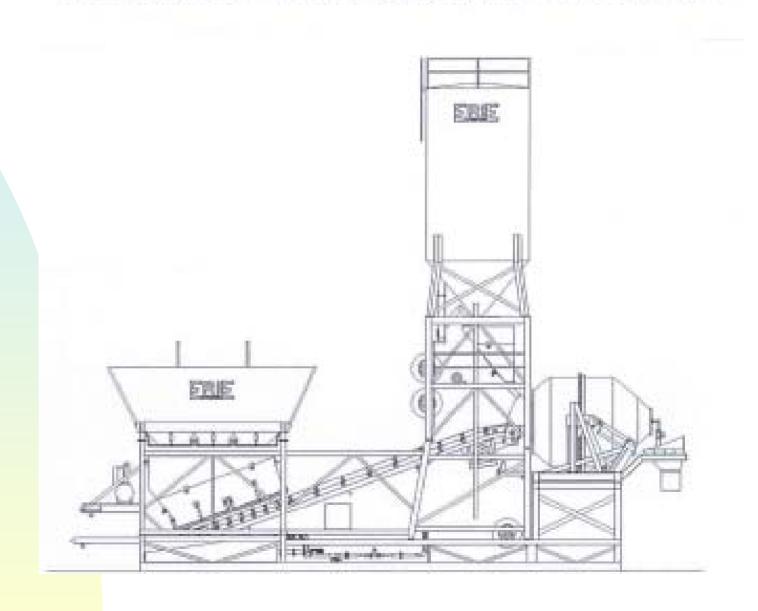


- Central Mixed
- Stationary Mixer
- Shrink Mix
- Ready Mix





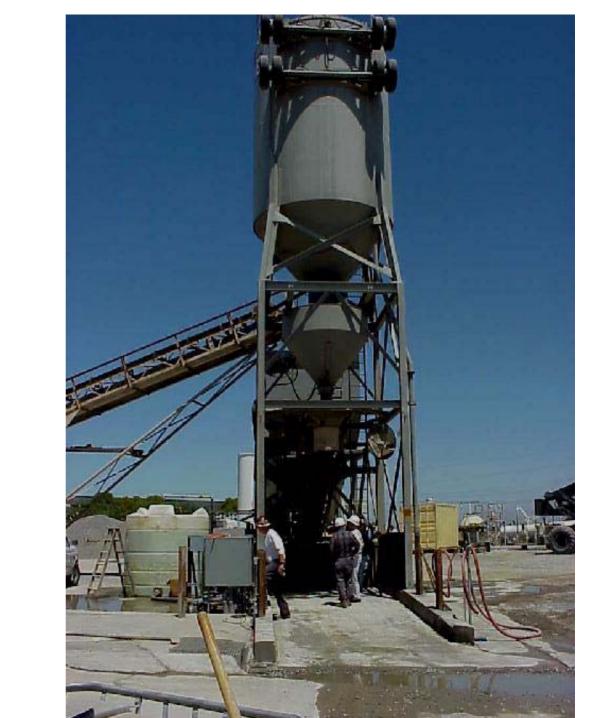
MOBILE GRAVITY CENTRAL MIX PLANT



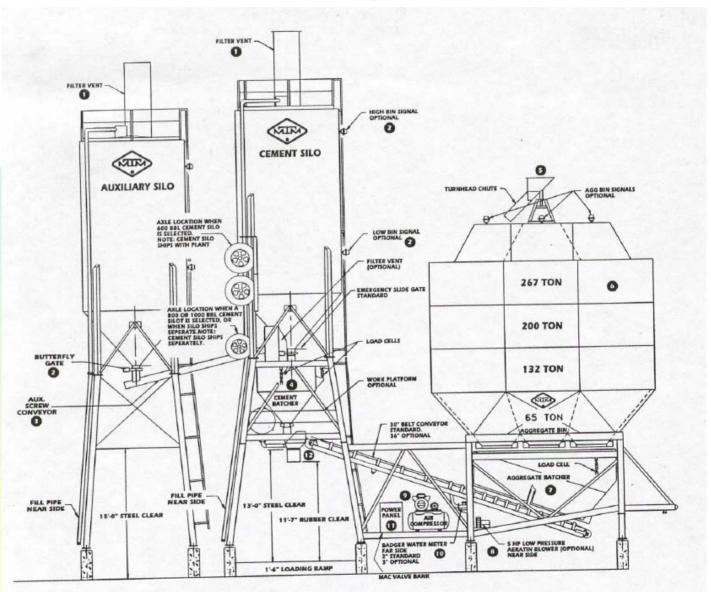
Dry Batch



- **Transit Mix**
- Ready Mix



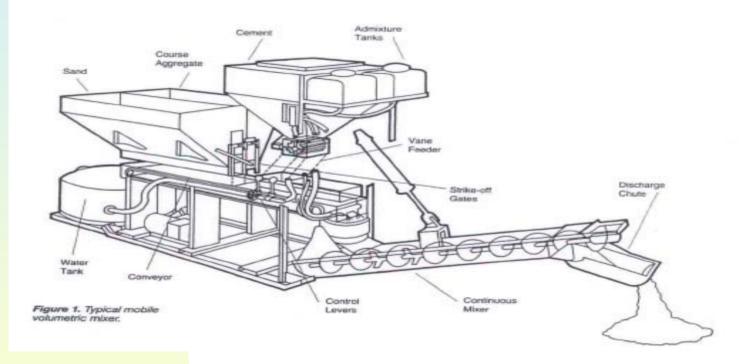
Portable Dry Batcher



Volumetric



Mobile volumetric mixer





Control Room





Why Inspect?

- Federally Mandated
- Contract Administration
- Quality Assurance
- Safety

Types of Inspection

- Weights and Measures
- Quality Assurance
- Safety

Weights and Measures

California Test 109

Things to Look Out For

- Every component of plant present.
 - ◆Moisture Meter
 - ◆Interlocks
 - **♦**Sampling Devices
 - ◆Dust Control Devices
 - ◆Discharge Gates
 - ◆beams,levers, knives and pivots





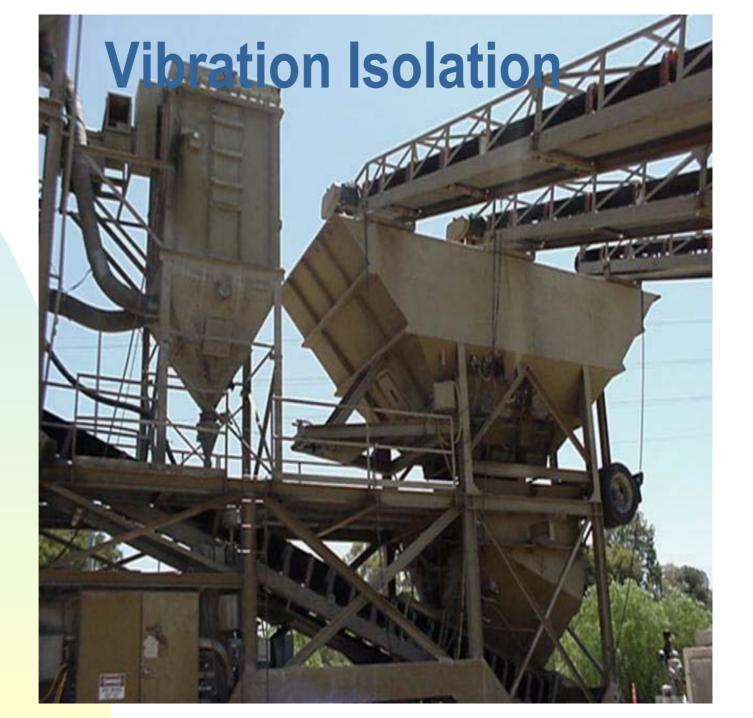


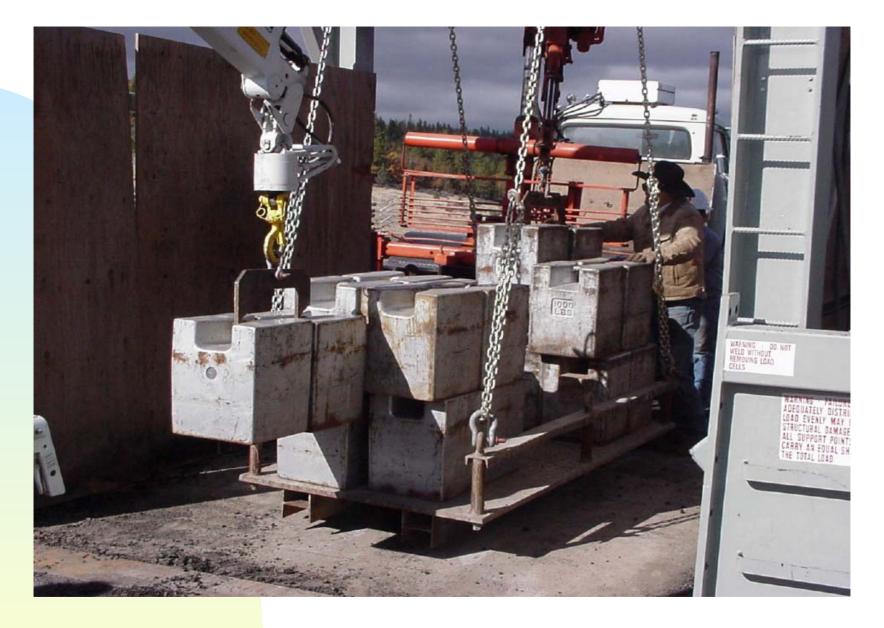






Weighing Components





Calibrated Weights

Water Prover



Quality Assurance

Contract Compliance

Info needed by a QA Plant Inspector

Mix Design

Plant Mix design number designation

Quantity ordered

Project location

Time and day of Pour

Pertinent instructions from the special provision.

Latest List of "Certified" Plants

Latest "Span Numbers" for individual plants.

Cement Sampler



Aggregate Sampler





Things to Look Out For

- Excessive use of water after being loaded.
- Unusually high or low -looking slump
- Seals and span numbers
- Mixing Time
- Temperature
- Agg. Intermingling
- permits (weighmaster's, pressure vessel, certs, proper delivery tags.

Safety

- Floor Holes
- Belt Guards
- Hand Rails
- Signs

PCC Yard Safety



Real Life Scenarios

- CT in the news (PCC did not set)
- Not enough (qualified/knowledgeable) personnel
- No recognition for job well done

Next Steps

- Plant Inspection Team (P.I.T.)
- HQ Central Information Exchange (C.I.T)